

PLATE I.—DETROIT RIVER DOLOMITE TEMPORARILY EXPOSED IN BED OF DETROIT RIVER NEAR STONY ISLAND DURING EXCAVATION OF LIVINGSTONE CHANNEL. The rock layers are nearly horizontal and their surfaces have been pitted and roughened by solution in the river water. River bed here is free from boulders.

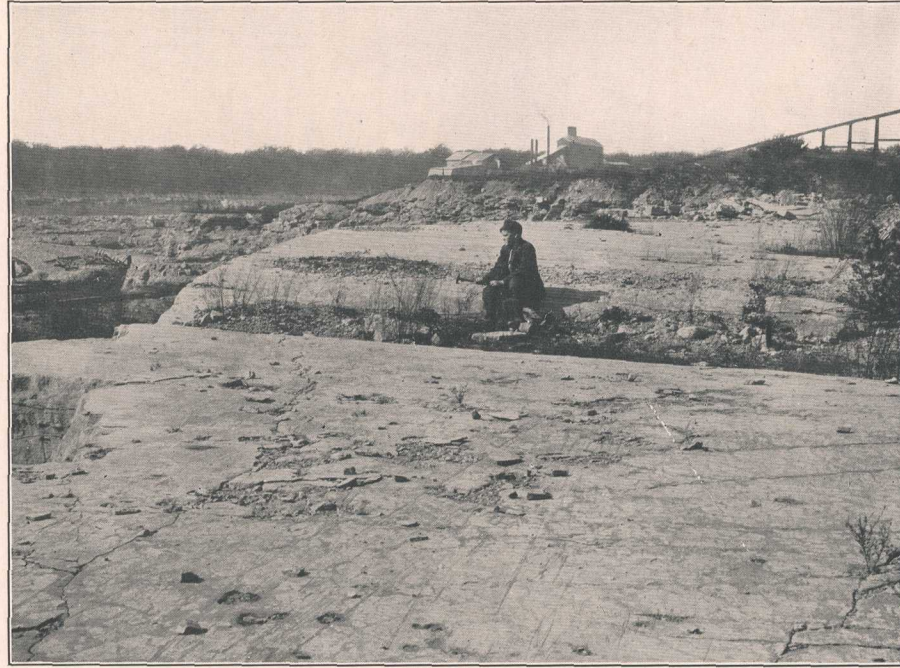


PLATE II.—DUNDEE LIMESTONE AT SIBLEY QUARRY, STRIPPED OF ITS COVERING OF DRIFT. The rock surface is smoothed, grooved, and striated by an ice sheet, probably the Illinoian. The grooves and furrows, in one of which the boy sits, strike southwestward. The striae in the foreground strike northwestward. View northwestward.



PLATE III.—DETROIT RIVER DOLOMITE TEMPORARILY EXPOSED IN BED OF DETROIT RIVER NEAR STONY ISLAND DURING EXCAVATION OF LIVINGSTONE CHANNEL. Shows rock surface smoothed and grooved by the Illinoian ice sheet. Grooves in the rock surface are shown by dark streaks of soil and gravel in the foreground. Illinoian till covers rock surface in face of cut, beneath the dump.

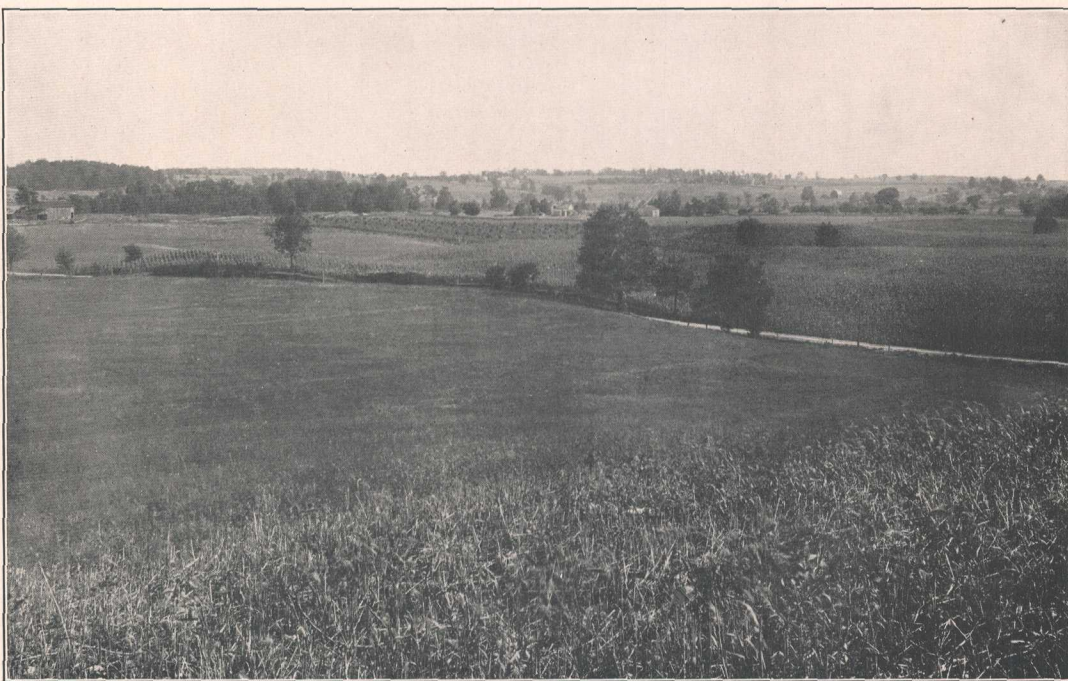


PLATE IV.—VALLEY OF GLACIAL STREAM BETWEEN OUTER AND INNER RIDGES OF DEFIANCE MORaine. View eastward from crest of the outer ridge toward inner ridge in distance.



PLATE V.—SECTION OF ILLINOIAN TILL TEMPORARILY EXPOSED IN BED OF DETROIT RIVER NEAR STONY ISLAND DURING EXCAVATION OF LIVINGSTONE CHANNEL. This till is very stony compared with the Wisconsin till, shown in Plate VI.



PLATE VI.—WISCONSIN TILL, HORIZONTALLY LAMINATED AND NEARLY FREE FROM PEBBLES EXPOSED IN STRIPPING AT SIBLEY QUARRY.



PLATE VII.—MILK RIVER POINT, LAKE ST. CLAIR, FORMED BY BOWLDERS, WHICH HAVE PROTECTED IT FROM EROSION. Boulders along the shore have been washed out of the Emmet Moraine.



PLATE VIII.—BOWLDERS OF GROSSE ISLE MORaine COVERING BED OF DETROIT RIVER NEAR STONY ISLAND, TEMPORARILY BARED DURING EXCAVATION OF LIVINGSTONE CHANNEL.



PLATE IX.—KAME GRAVEL COVERED BY LATER TILL DEPOSITED DURING READVANCE OF THE ICE 1 MILE NORTHWEST OF FARMINGTON. The till is the harder material at the top, overlying the kame gravel in the pit.



PLATE X.—SECTION OF KAME DEPOSIT JUST EAST OF NORTHVILLE. Gravel of the kame is used as road material. Rejected cobble and larger boulders from the gravel are piled at base of cut.



PLATE XI.—THE THOROUGHFARE, ON GROSSE ISLE. A distributary channel of glacial Detroit River between ridges of the Grosse Isle moraine. *

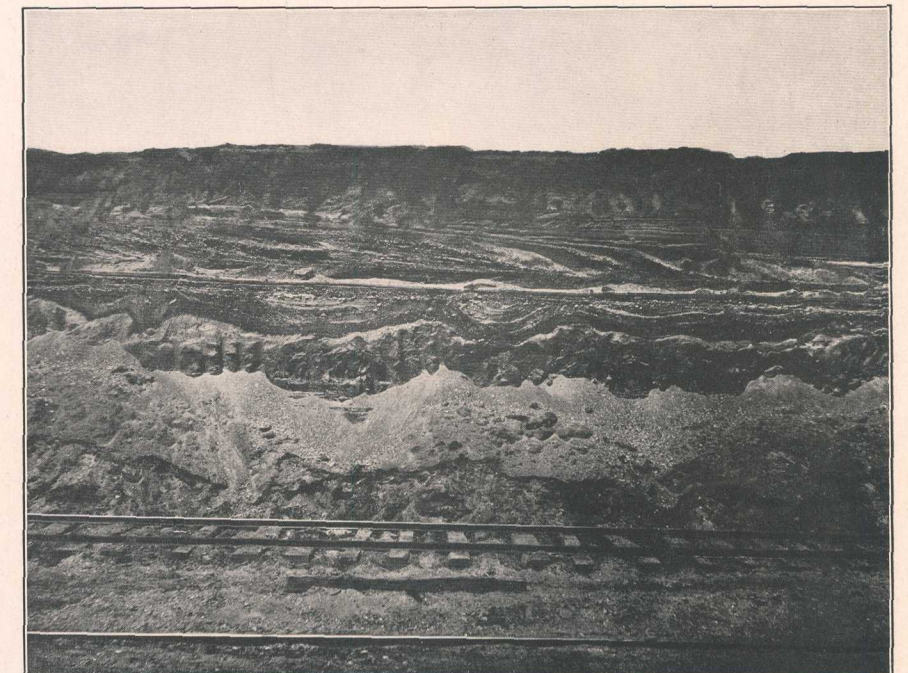


PLATE XII.—SECTION OF THE BEACH DEPOSIT OF GLACIAL LAKE WHITTLESEY 1 MILE NORTHEAST OF PLYMOUTH. Shows strongly marked cross-bedding in the sand and gravel of the deposit.